

A

88

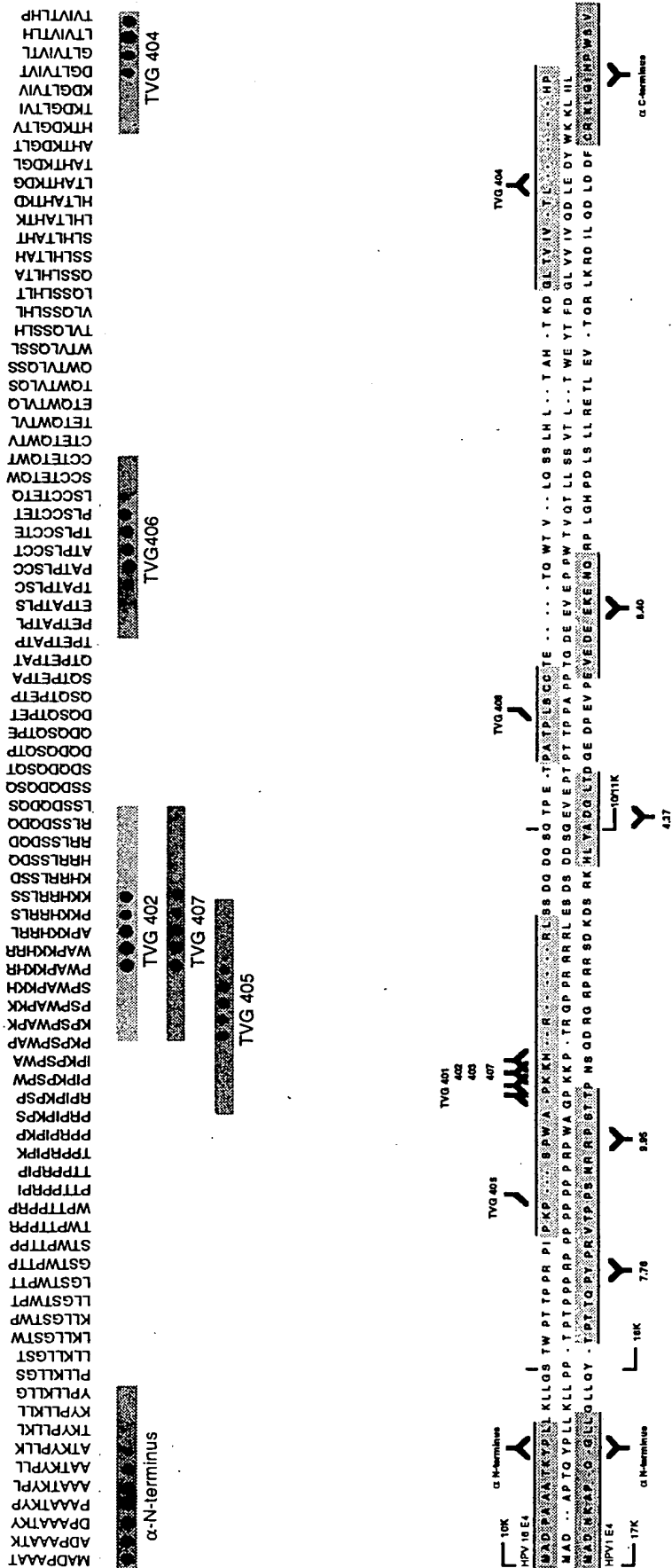
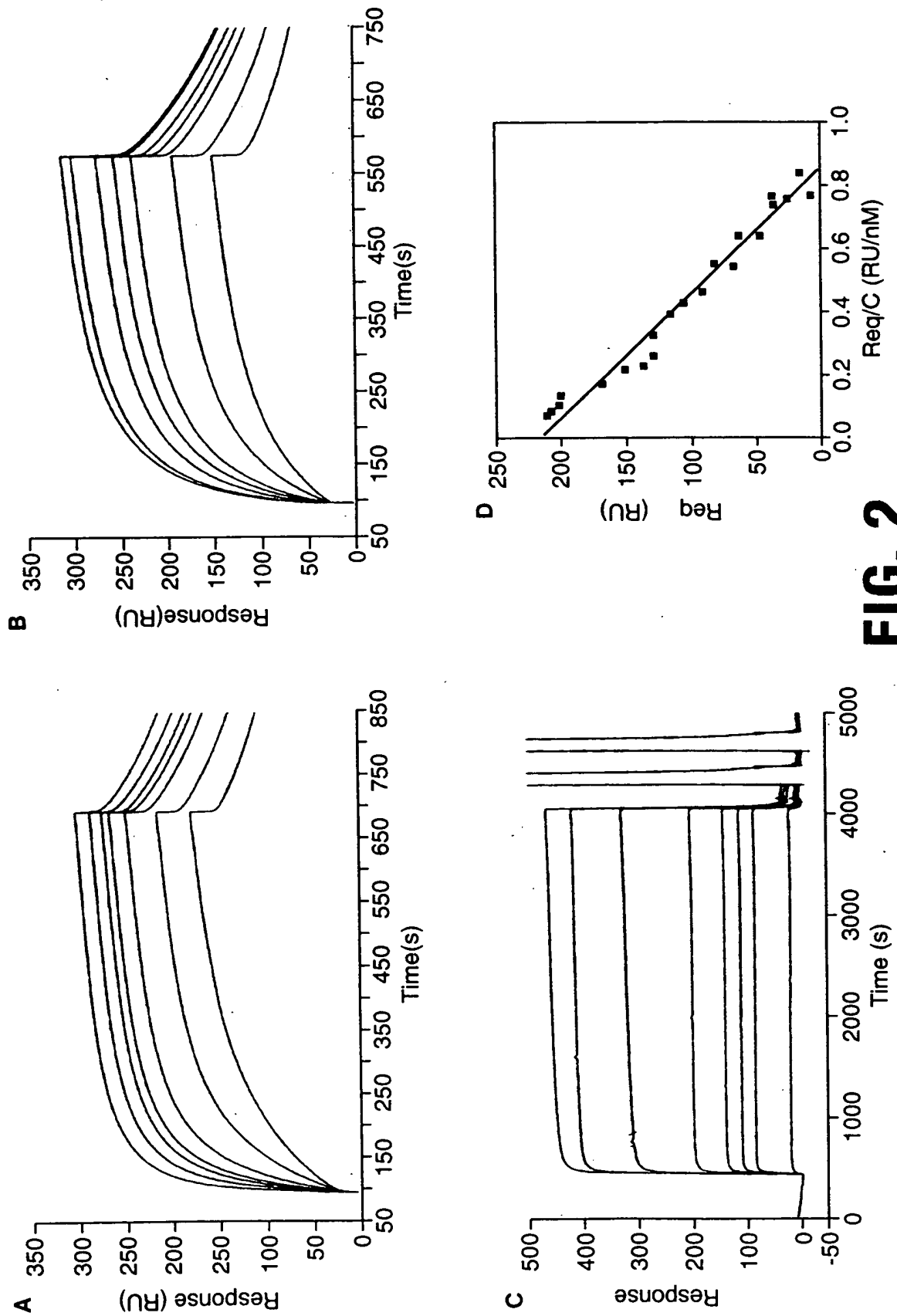


FIG. 1

2 / 10

**FIG. 2**

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3 / 10

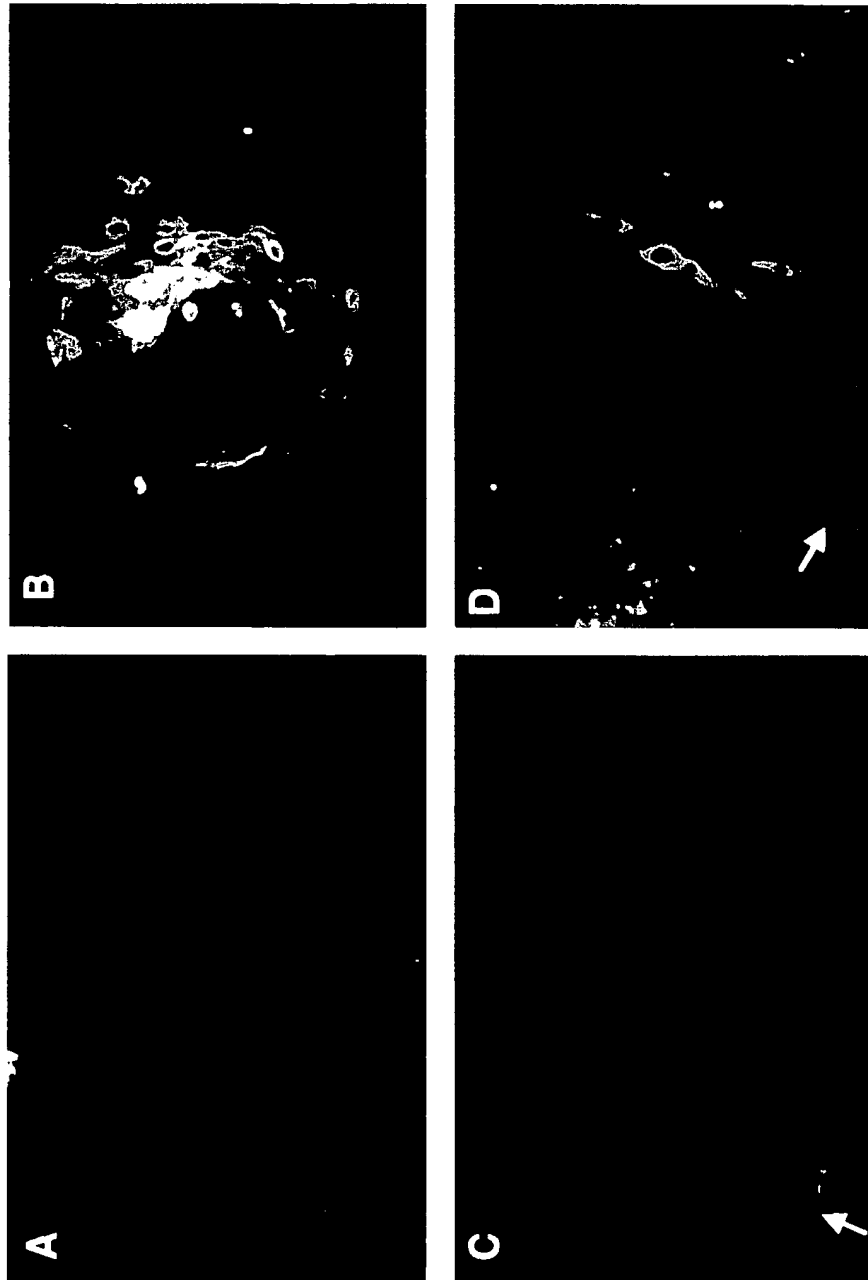


FIG. 3

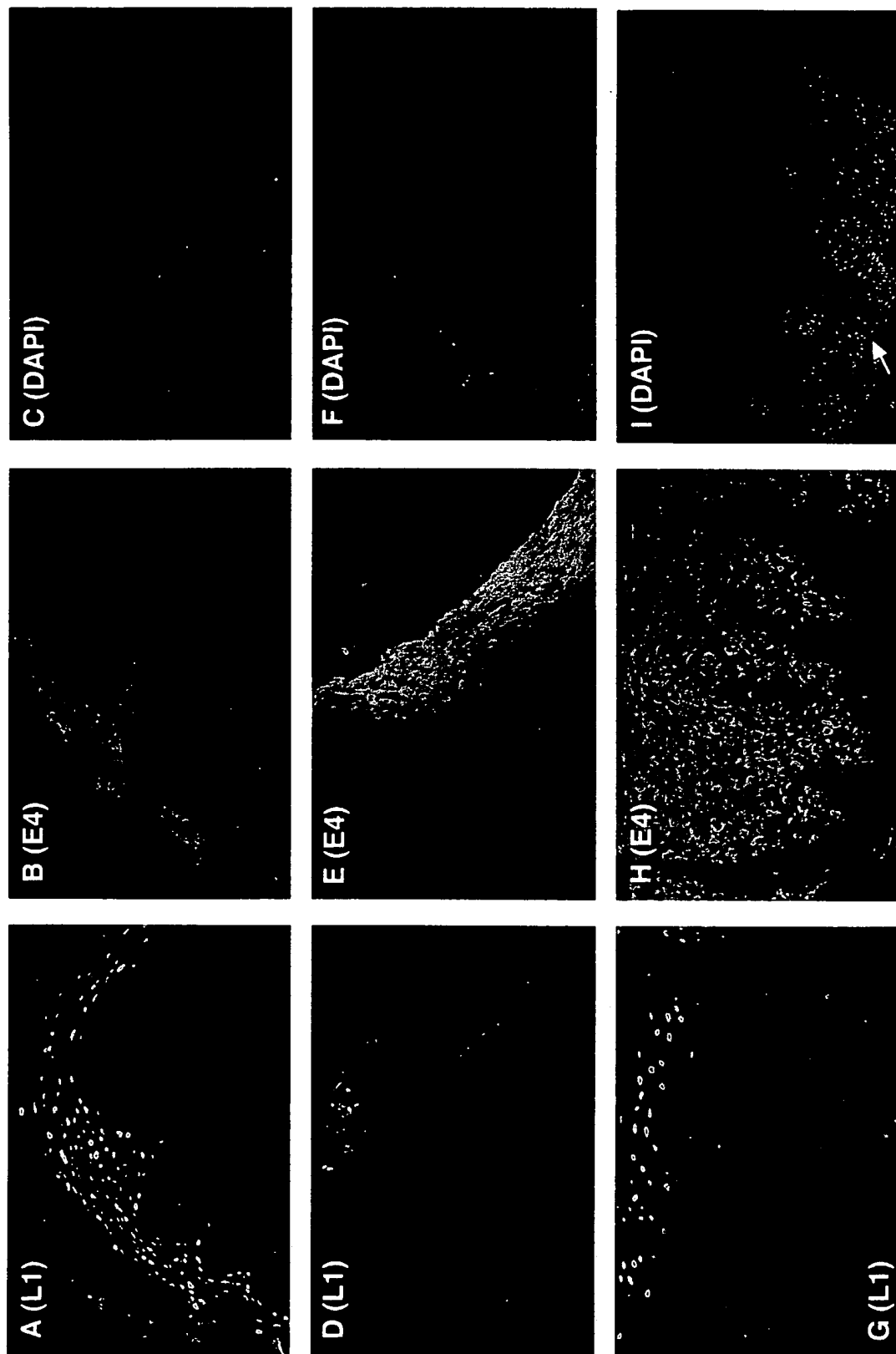


FIG. 4



FIG. 5

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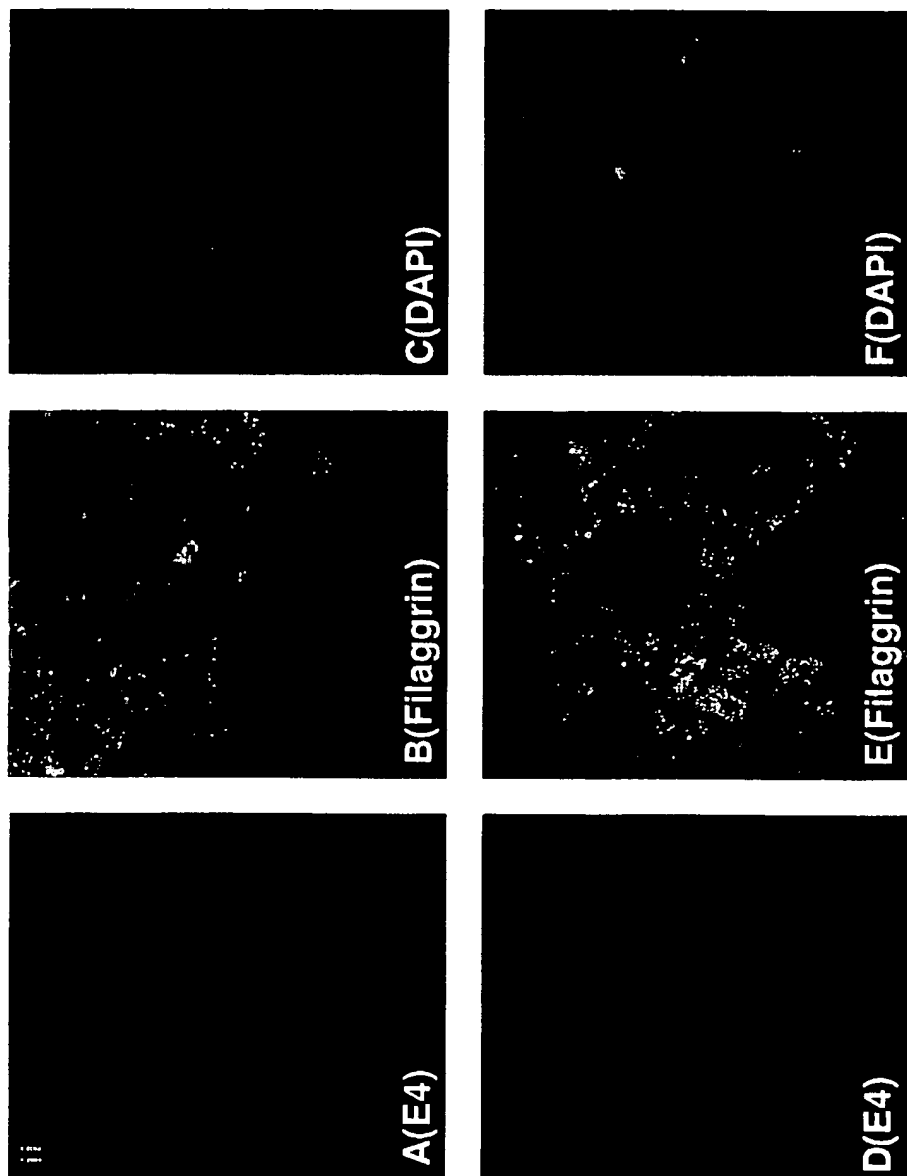


FIG. 6(i)

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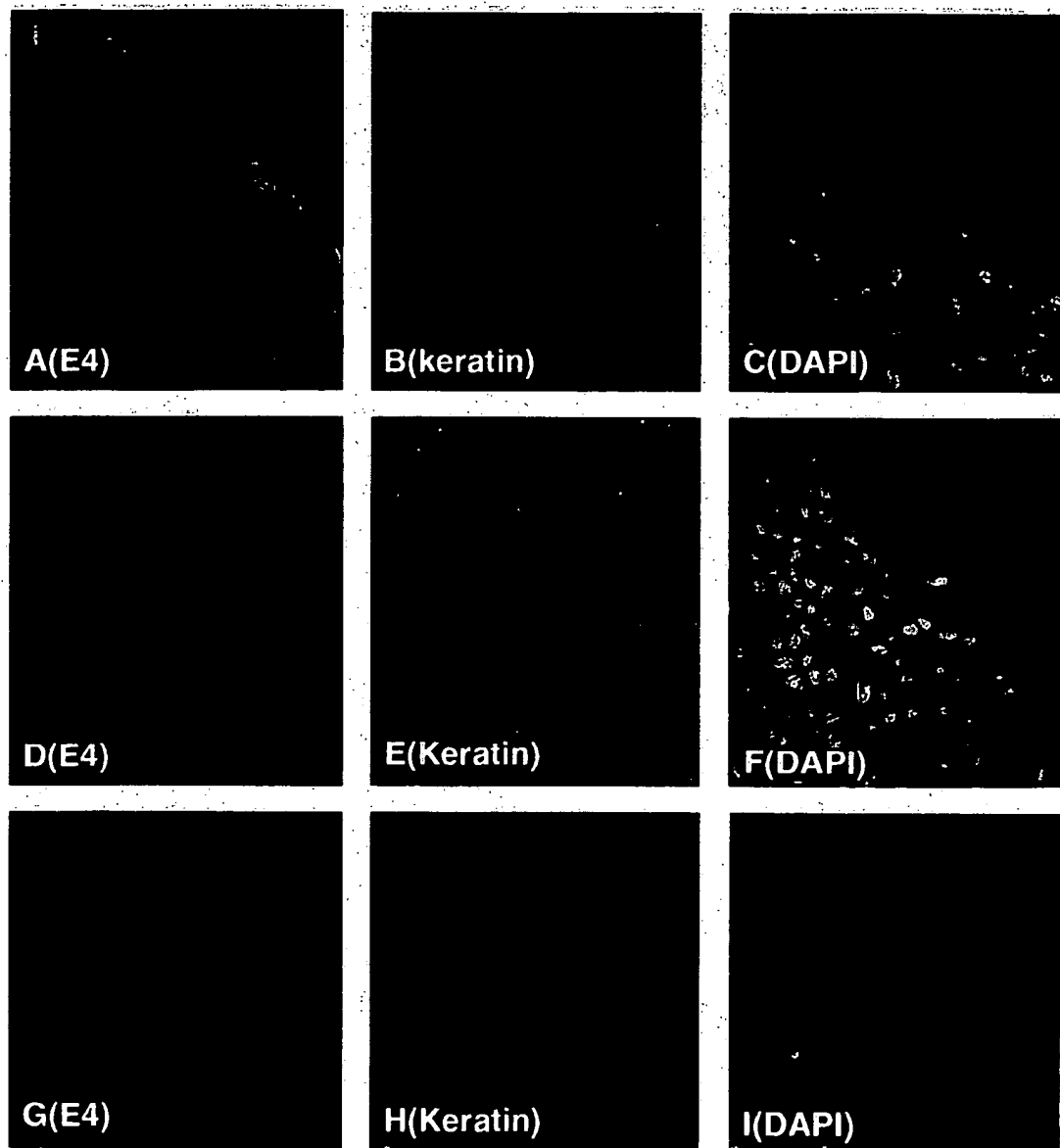


FIG. 6(ii)

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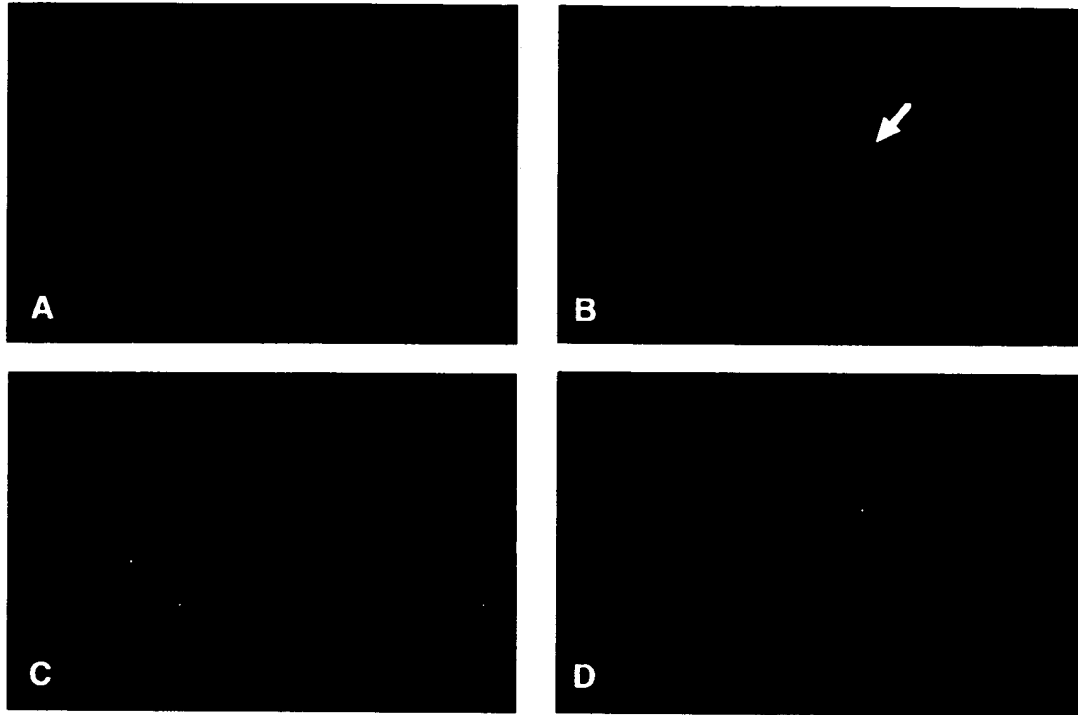


FIG. 7

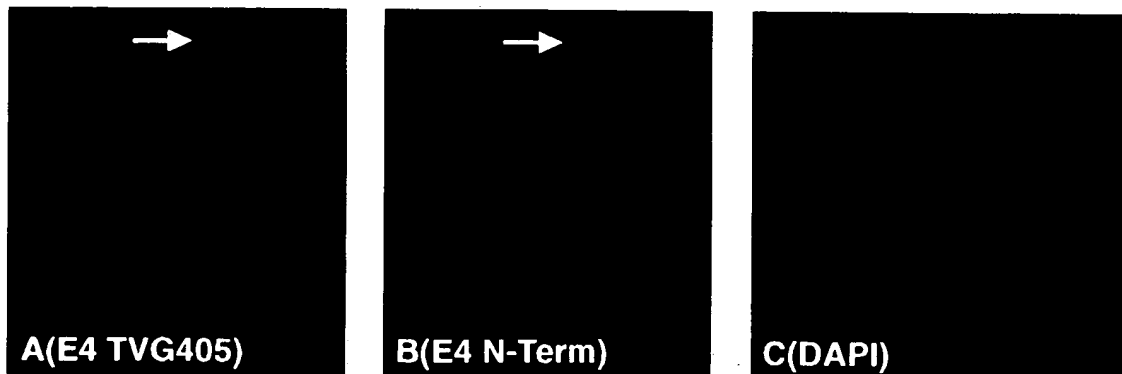


FIG. 8

CHARGED REGION....

most-likely	PPPPP.RP..WAGPKKP.....TRGPPRRRL....E..SDS.....	51
HPV54	HH....V..TT..-Q-Q....SRA.....NEL.....	43
HPV32	..SQGV.TA..TQTAOTEY...Y-KT--PP-R.....N-T.....	61
HPV42	..L..T.TT..TQTVOTEQ..HT-C.-SKPH-H.....N-T.....	59
HPV3	..K-RWA..--KDRS-SD....SDS....-ST....GS.-S.....	46
HPV28	..K-RWA..--KDRS-ND....SDS....-HST....G.-S.....	46
HPV10	..K-RWA..--RDRN-SD....SDS....-ST....D.-T.....	46
HPV29	..K-RWG.LR..RDRNGNDA..GLKQSGLGHS...S.-S.....	52
HPV61	..--A..--P-RH....PRC.....I.....	49
HPV2a	..QEEQLR--KR..C-P-RRQ....RV....-PS....A.-V.....	61
HPV27	..EQEQLR-Q.TC..C-P-RRH....RV....-PS....A.-G.....	58
HPV57	..QS....HSRTPRR...HRV....-HPS....A.-G.....	53
HPV26	..-T...C...-R-....-HTQ....-D.....	45
HPV51	..L...PA....-HNS....-N-X.....	42
HPV30	..--T-....RP...PHGR....NVL.....	46
HPV53	..--T-H...HPC....G-E....N.VPE.....	44
HPV56	..--T-T...QY....PT....D.QEN.....	42
HPV66	..--L-....RY....PT....D.QEN.....	42
HPV18	..A-...C-...-QR-....A-....L.H-L.....	44
HPV45	..K-...H-...-QN-....S-....L.-L.....	44
HPV39	..-Q...Q...H-...-Q...S-....-L.....	43
HPV70	..Q...Q...H-...-L...S-....A.-VE.....	43
HPV59	..K-...T-...-RG-...-V-....-Q.....	44
HPV7	..-T-...C..TT..PT....C-...-PPK...Y.TTT.....	45
HPV40	..-T-...P...PQR-P-R....S.A-P-H-P....-E.....	48
HPV16	..K-...S-...-H-....S-...-Q.....	41
HPV35h	..K-...A-...-Q-....-QIT...N.DFE.....	43
HPV31	..K-...A-...-V-V...C.GG-...L.-Q.....	46
HPV52	..-Q...C-...V-...TYN...HH-...N.D-D.....	40
HPV33	..HH-Q....PN...D.D-L.....	30
HPV58	..-TTK...V...H-G...Q.-D.....	29
RhPV1	..-T...P-...R-T...C.GH-...Q.-EC.....	43
HVP6b	..-L...C-...Q-...R-T...OC...K-...G.NEH.....	40
HPV11	..LQ...C-...P-...R-T...AC-...G.-EH.....	41
HVP44	..HR-H-HC-...L-P-RTA...W-...-HV...N.DPE.....	48
HVP55	..HR-HLC-...P-P-RNA...W-...-HV...N.DPE.....	48
HVP13	..-Q...C-...A-...R-N...VC...K-...V.N-N.....	43
PCPV1	..AQ...CH..PS..-Q-I...VC...K-PI...N.DFE.....	44
HPV34	..-THRTR...VC...QHGN...G.I-...35	
HPV19	..GTRDDLPA GPDDK-...K-A..RN.DQG-N...PSP-RG-G-G...F.RLTGDHDPN	93
HPV25	..PPAGHDDSKPKRARGDQG-S-G-...GP.SPA-V...SD-RC-G-G...NL-RLSGDQDP	105
HPV20	..GTDGDLPVGQGEQ-K-A..RGDGPQS...PSPS-G-G-GR...G.TGLGLGLGL	91
HPV21	..GTDGDRPVGPGER-K-I..KG-DRG...SP-RG-G-GR...G.-PDGCPDP	90
HPV14d	..EGTDADRPVGPGER-K-G..RG-DRG...SP-RG-G-G...G.-LDPGRNR	92
HPV5	..SQGDRKRSKGDQGPDTGPGLGPGRG-S-K-T..LGP-PG-G...PR-S-RLGPLQ...A.DRDPEE...	115
HPV36	..GQGDRKRSKGDQGPDTGPGLGPGRG-S-G-T-Q.PL-LPP...GL-R-SP...G.-SGYQPD...	114
HPV47	..QGDRKRTKGDPPDPGPGPVLPKPTL-...P-PT-GLRRSTRLVLV-GQGPPP...D.LPA.....	116
HPV12	..GDRKRSKGDQGRDTAPSLTPGRA-S-K-G..L-P-PY...GPP-R-SH-...G.TGGRD...	107
HPV8	..QDRKRSKGDQGRDTAPGLAPGRS-GL-G..L-P-PY...GP-R-SP-Q...F.GPGPDRDPE	111
HPV24	..PLTPDADDDPRPKRSKGDHGA-G-A..A-PL-LDL..DPPQ-G-DQPPG...A.TGG.....	102
HPV15	..TTEKNLALQP--GG.-KD.KDKD--TQ..QGDQ--QGGDK...K.-PG.....	86
HPV17	..DTGGKRLALQ--P-..GTKD-TS...DDQ--HGGDK...Q.-PG.....	79
HPV37	..EEKHLALQ---GK..KDKE-T-Q..QGDQ--PGGNK...Q.PPG.....	82
HPV9	..PPGGRKDRDKEKEKEKEKEK.K..TT-D-G...DP.RVEQPK...G.EG.....	93
HPV22	..LVLQSP-SGGKGE..RDKD--Q...QGEEK-DQGP...AP.....	74
HPV23	..KHLALQ---G.GK..KDKE--S...PGEEK-DQGP...G.AE.....	71
HPV38	..DTGEKHLALQ---AG..KGKD-EK...PQA-KGEEK...A.DQG.....	71
HPV49	..TLVLQPPPTPGKRSRDDDPGLEPG-ADGK-A..PQ-...AVPD-DPDLPL...DPEGP...	120
HPV4	..TLVLQPPPTPGKRSRDDDPGLEPG-ADGK-A..PQ-...AVPD-DPDLPL...DPEGP...	
HPV65	..-SRRA.LL..EG-NRGN...P-...-P-PLKPREYD..Y-E.....	57
HPV48	..-SL-R-ALVVG-NRGNL..NRPPQR-PKP-GY...-Y-E.....	57
HPV50	..LE.GD.-A..SQKTPT-...S-...-P-HP...D.YE.....	49
HPV60	..ANRKD.LE..AV.NQ-Y...R-PNH-P-HQ...Q.Y-F.....	50
BPV1	..L-...T..EDR-H-R...ESLAL---V-...FDYDAE.....	55
BPV2	..-SLSL.LC..S-...PPA...V...PS...-QA-...	45
EEPv	..-SLSL.LC..S-...PPA...Y...PS...-QA-...	44
DPV	..-TQ-T.E-..CLTLLLD...N...PPF...V.AP.....	44
BPV4	..TL...LL..E-T-FTV...PS...E...A.KTG.....	46
HPV41	..-DL-E.T-..G-SRGR...S-LRD-DHGH...DH.DRL.....	50
COPV	..-QRY.Y.DR..RGRDDAET..RKRGSRSPQPLS...DEE.....	38
CRPV	..L-GK.GR..HG-LDGG...-RGSPEGQ...DEE.....	48
ROPV	..QG-K-..-VH-..DEGO...G...HQG...C.NEG.....	51
HVP1a	..LQY-O.A-..RT.IR-...RSSRY-G-F...V.T-GGDPDPQ	55
HPV63	..T-SN.-R..PSTTPNS...QD--R--SDK...D.-RK.....	50
MnPV	..KL-EKO-R..RGRDTTR...N...-LF...A.-G.....	46
	..I-...V..SLOD-TT...GGNQOR---G...-RGA.....	59

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10 / 10

.... CHARGED REGION

most-likely	DSDSGEVEG.....	PTPTTPPAPTG.....	72
HPV54	E-TA.QTSN.....	H-APQT.....	57
HPV32	.....	--LC.SHQQ.....	S-CS-T.-SQ-Y.....	80
HPV42	.....	--VDSRHHS.....	TCS-QT--S-ASP.....	81
HPV3	.....	N-S-NSNSN.....	NI-KP--RK-LN.....	67
HPV28	.....	S.--.....	--KP--RK-LN.....	60
HPV10	.....	S--K.....	G-KI--RR-RN.....	61
HPV29	.....	S.T-SSSNR.....	R--P--RK-VH.....	73
HPV61	.....	--TET-SS.....	S--QHKTT-S.....	68
HPV2a	.....	S----SI.....	G--LRERSE-.....	79
HPV27	.....	S----SI.....	SG--LRERSE-.....	76
HPV57	.....	S----S.....	NS--LRGRSEK.....	71
HPV26	.....	--VDLTPP.....	S-QS-LS-OLPH.....	65
HPV30	.....	EPO-PT-O.....	--PDS-L-ESPT.....	66
HPV53	.....	P.O-PT-L.....	TP-HS-LPO-ES.....	63
HPV56	.....	-P-Y.GNON.....	L--PES-TQSVS.....	62
HPV66	.....	-PEOVNON.....	L--PES-THTVS.....	62
HPV18	.....	-TVD.....	SRRSS.....	53
HPV45	.....	--VD.....	SOSST.....-D.....	55
HPV39	.....	--VQ.....	SQS-LS--E.....	56
HPV70	.....	S.PD.....	PQKQT.....	51
HPV59	.....	--VD.THS.....	-LSL.....	56
HPV7	.....	ATHRP-S--.....	E-E-C-SVQW-DV.....	67
HPV40	.....	E.TD.....	-CPS-LLWANHS.....	63
HPV16	.....	-Q-QTP.....	-A--LSCC-E.....	59
HPV35h	.....	GVP.....	S----SECDS.....	58
HPV31	.....	E.Q-QST.....	-----TSCCEA.....	64
HPV52	.....	Q.T-QTP.....	-----S-TTFCGD.....	58
HPV33	.....	QTPQ.....	--PS-LQSCSV.....	45
HPV58	.....	--IYQTP.....	T--S--QSIQ-A.....	49
RhPV1	.....	V.GQTQ--.....	IQCG.....	55
HVP6b	.....	E.E--N.....	SPLA--CVW--L.....	56
HPV11	.....	V.-R.....	PL--CVW--S.....	55
HVP44	.....	--PPQ.....	-----ET-SVS.....	63
HVP55	.....	--PPQ.....	-----GT-SVS.....	63
HVP13	.....	EDLHVPL.....	--R-HK-LCVS.....	62
PCPV1	.....	--PPTVL.....	NSK--LTLCPV.....	62
HPV34	.....	V.TQ.....	RG.....	41
HPV19	.....	PEERPPPLE-----	HP-PPVTN--GH.....	119
HPV25	.....	OPPEGEVOGHPOPPVTPQ.....	HL-PP-LP--N-HNDRD.....	149
NRRAGGLGTDHD.....	PDPEGESPSAPLPPPPPPPD-Q---	HP-PP--P-HN-RD..S.....		144
HPV21	.....	GPIPGPGLNRLTSRNTSDPEGKCPSSLPPPPPPPOPTTPE-OG---	HP-PP--P-NGHDG.....	152
HPV14d	.....	LSGGLGTD.....	QDPDPDKKKCPESQPPPE-----	135
HPV5	.....	GPOPPAE-----	HPGG.DQGHPP--HN-H.....	147
HPV36	.....	HDPEAPLE-----	GGH..GHHP-PP--P--N.....	144
HPV47	.....	PPVE-----	HPQKDRDHP-P--ONGHGK.....	145
HPV12	.....	RNPEE-G---	HP-P--LSGGDP.....	129
HPV8	.....	PLGEGQVEGHFG-GDQPQ.....	HP-P--SNGHK.....	147
HPV24	.....	V.GETPP.....	GNEESQP--GE.....	120
HPV15	.....	EGT-ADGD.....	D-EK--S--P-E.....	106
HPV17	.....	EGSDASGDEN.....	A--E--QD---E.....	103
HPV37	.....	EGTDADGDEN.....	A--E--V---E.....	106
HPV9	.....	-G-E...--	-P-Q--LP---E.....	112
HPV22	.....	SGEG-PPDD.....	-S-EN-QN--G.....	95
HPV23	.....	NGGG-KPKD.....	-P-EE-QN--G.....	92
HPV38	.....	P.EAPTG--GTP...GD-P-ED-QS--P-EG..E.....		99
HPV49	.....	E-.L-QPP-I.....	-A-RE--GAE.....	140
HPV4	.....	--EK-NQ.....	-GOEK--KEEE.....	77
HPV65	.....	--DK-NQ.....	-GOER--KEEE.....	77
HPV48	.....	--DENR-N.....	LE-P--..H-ED.....	67
HPV50	.....	--EDD-K-N.....	TI--DTESHNON.....	70
HPV60	.....	-PT-.NK-N.....	YP-ESR-V-KDA.....	75
BPV1	.....	V.GY-T-LA.....	R---IF.LQAR.....	64
BPV2	.....	V.GY-T-LA.....	R---IF.LQAR.....	63
EEPv	.....	E.LAKTGV-P.....	F-ARL-T-HHHP.....	65
DPV	.....	VGPL.....	-ARL-T-HHSP.....	61
BPV4	.....	RRGRTP-DE.....	TRGYRV-GD-RE.....	71
HPV41	.....	LT-A...D.....	P-RR-N-G-RRRL..F.....	57
COPV	.....	---EE-A-N.....	YP-SRS.R-RR-R.....	69
CRPV	.....	R.Q--N-N.....	RP-R-K.....	63
ROPV	E.....	LDSTQQ-PEDK-NIP.....	--S-PT-S---P.....	83
HVP1a	H.LYADGL.....	TDGED-EV-EVE.....	69
HPV63	PT-E.....	G-EV-EI--SD.....	62
MnPV	RTP-P-TTA.....	QR-KR-RRAC-RK.....	81

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